

## INTERNATIONAL SEARCH REPORT

/GB2004/003474

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 B65G1/133

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B65G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/065421 A1 (DIDRIKSEN JAN ET AL) 3 April 2003 (2003-04-03)	1-5,10, 12-15, 17,21-23
Y	paragraph '0105! - paragraph '0114!; figures 1-5	6-9, 18-20
Y	US 4 389 157 A (GOSWICK RICHARD L ET AL) 21 June 1983 (1983-06-21) column 1, line 52 - line 56 column 9, line 16 - line 64; figures 1,2	6-9, 18-20
X	DE 198 50 636 A (ZELLER GEORG) 4 May 2000 (2000-05-04)	1-3,5, 10, 12-14, 17,22,23
	the whole document	---
		-/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

\*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&\* document member of the same patent family

Date of the actual completion of the International search

29 September 2004

Date of mailing of the International search report

06/10/2004

## Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

## Authorized officer

Lawder, M

## INTERNATIONAL SEARCH REPORT

'GB2004/003474

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 12 19 864 B (WALTHER ZARGES DIPL ING) 23 June 1966 (1966-06-23)  column 5, line 37 - line 52; figure 1 -----	1-5,10, 12-17, 22,23
A	PATENT ABSTRACTS OF JAPAN vol. 0092, no. 26 (M-412), 12 September 1985 (1985-09-12) & JP 60 082509 A (NIHON FUAIRINGU SEIZOU KK), 10 May 1985 (1985-05-10) abstract -----	6-8,18, 19
X	US 5 575 375 A (TAYLOR RONALD K ET AL) 19 November 1996 (1996-11-19)  column 3, line 50 - column 5, line 62; figures 1,2 -----	1-3,5,6, 12-18, 22,23
X	EP 0 864 513 A (UNITED PARCEL SERVICE INC) 16 September 1998 (1998-09-16) figure 2 -----	1-3,5, 10-17
A	US 5 894 918 A (BONNET HENRI) 20 April 1999 (1999-04-20) the whole document -----	1,14,17

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

/GB2004/003474

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2003065421	A1	03-04-2003	EP	1273531 A1	08-01-2003
US 4389157	A	21-06-1983	FR GB	2509271 A1 2101574 A	14-01-1983 19-01-1983
DE 19850636	A	04-05-2000	DE	19850636 A1	04-05-2000
DE 1219864	B	23-06-1966	AT CH GB	247247 B 439103 A 1083116 A	25-05-1966 30-06-1967 13-09-1967
JP 60082509	A	10-05-1985	JP	1466113 C 63013887 B	10-11-1988 28-03-1988
US 5575375	A	19-11-1996	US AU AU BR CA CN CN CZ DE DE EP ES FI HK HU JP KR NO NZ PL RU SG TW ZA AU AU BR CA CN CZ DE ES FI FR GB HK HU IT JP NO NZ PL RU SE	5413205 A 696413 B2 5082796 A 9602183 A 2174990 A1 1398759 A 1139638 A ,B 9601339 A3 69607238 D1 69607238 T2 0742163 A1 2144169 T3 961948 A 1013975 A1 9601137 A2 9226928 A 266765 B1 961868 A 286531 A 314122 A1 2161114 C2 47132 A1 432002 B 9603414 A 675366 B2 7971594 A 9405634 A 2151716 A1 1115571 A ,B 9501484 A3 4497811 T0 2103658 A1 952873 A 2711121 A1 2287683 A ,B 1006564 A1 71976 A2 RM940652 A1 8504733 T 952305 A 275658 A 309342 A1 2153454 C2 510075 C2	09-05-1995 10-09-1998 21-11-1996 30-06-1998 10-11-1996 26-02-2003 08-01-1997 13-11-1996 27-04-2000 26-10-2000 13-11-1996 01-06-2000 10-11-1996 01-09-2000 28-03-1997 02-09-1997 02-10-2000 11-11-1996 19-12-1997 12-11-1996 27-12-2000 20-03-1998 01-05-2001 30-10-1997 30-01-1997 04-05-1995 08-09-1999 20-04-1995 24-01-1996 14-02-1996 23-11-1995 16-09-1997 12-06-1995 21-04-1995 27-09-1995 05-03-1999 28-02-1996 13-04-1995 21-05-1996 12-06-1995 26-11-1996 02-10-1995 27-07-2000 19-04-1999

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

/GB2004/003474

Patent document cited in search report	Publication date	Patent family member(s)		Publication date	
US 5575375	A	SE SG WO ZA	9502132 A 50393 A1 9510467 A1 9408007 A	11-08-1995 20-07-1998 20-04-1995 31-05-1995	
EP 0864513	A	16-09-1998	US EP EP EP AT AT AT AT AU CA CA CA CA DE DE DE DE DE DK DK DK DK EP ES ES JP JP WO US US US US	5433311 A 0869087 A2 0864513 A2 0864514 A2 177406 T 267131 T 235408 T 241550 T 1095395 A 2166888 A1 2345399 A1 2345400 A1 2345402 A1 69417054 D1 69417054 T2 69432368 D1 69432368 T2 69432761 D1 69432761 T2 69433799 D1 728114 T3 869087 T3 864513 T3 864514 T3 0728114 A1 2195269 T3 2203878 T3 9505264 T 3093272 B2 9513977 A1 5489017 A 5509526 A 5501313 A 5570773 A	18-07-1995 07-10-1998 16-09-1998 16-09-1998 15-03-1999 15-06-2004 15-04-2003 15-06-2003 06-06-1995 26-05-1995 26-05-1995 26-05-1995 26-05-1995 15-04-1999 01-07-1999 30-04-2003 12-02-2004 03-07-2003 08-04-2004 24-06-2004 27-09-1999 20-09-2004 21-07-2003 29-09-2003 28-08-1996 01-12-2003 16-04-2004 27-05-1997 03-10-2000 26-05-1995 06-02-1996 23-04-1996 26-03-1996 05-11-1996
US 5894918	A	20-04-1999	AT CA CA DE DE DK EP EP ES JP JP WO	217848 T 2276482 A1 2451972 A1 69805498 D1 69805498 T2 950013 T3 1215141 A1 0950013 A2 2176948 T3 3515130 B2 2000514026 T 9830476 A2	15-06-2002 16-07-1998 16-07-1998 27-06-2002 28-11-2002 16-09-2002 19-06-2002 20-10-1999 01-12-2002 05-04-2004 24-10-2000 16-07-1998